# Foodborne botulism – A public health emergency

## Partnership in Action





### Susan Parrish Daniel Gaines

NC Department of Agriculture







### Nicole Lee

NC Division of Public Health



- Canning and Foodborne Botulism
- Timeline of Events
- Q & A

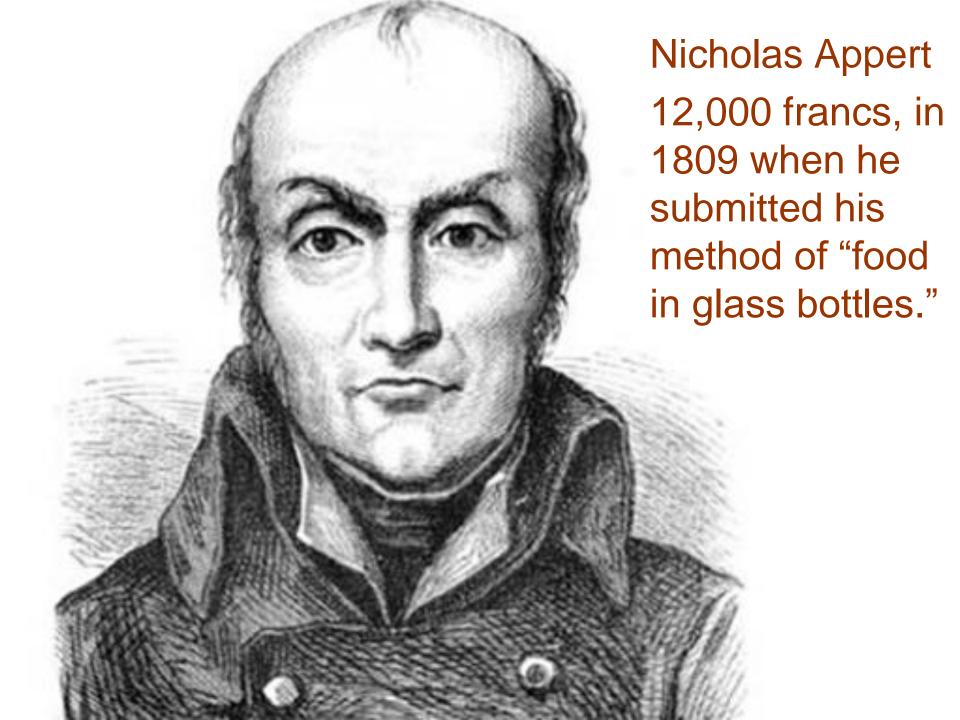
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# Botulism and home canned foods

Dr. Ben Chapman NC State University May 6, 2015









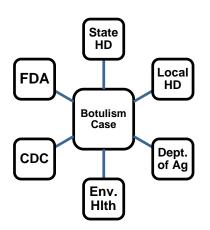




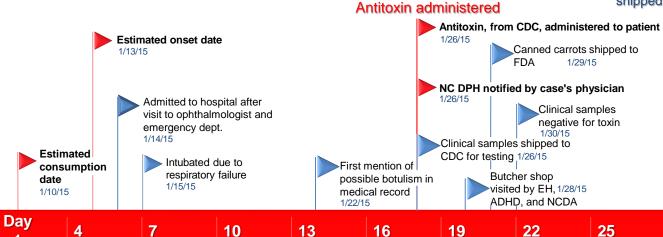


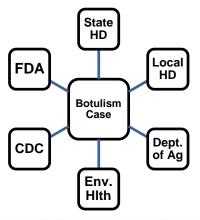
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January 2015							
SUN	MON	TUE	WED	THU	FRI	SAT	
				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

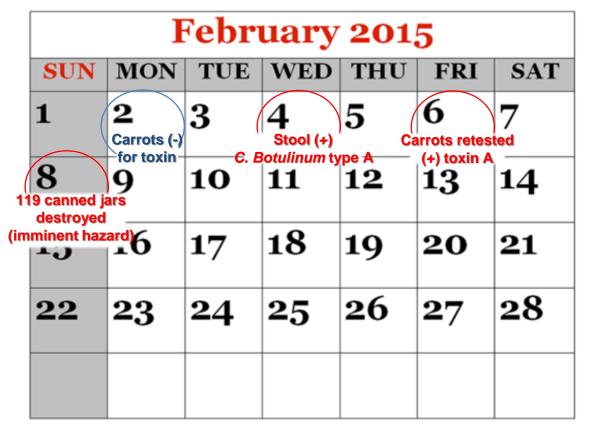


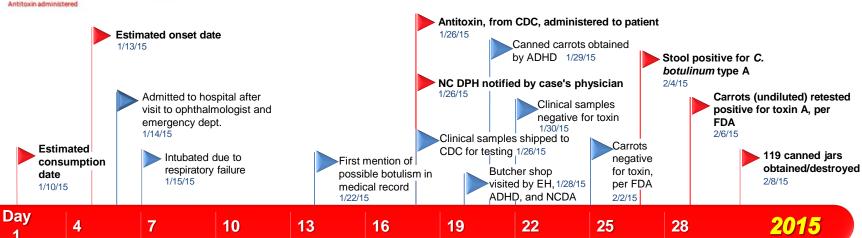






SUN	MON	TUE	WED	THU	FRI	SAT
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4	5	6	7	8	9	10 consumpti
11	12	13 onset	14 admitted	15 intubates	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31





# Status of Case A Today

 Discharged from hospital in April after being hospitalized for 11.5 weeks

No longer on a ventilator

Living with family member

Able to speak;

# Take Home Points

### **Public Health Event**

- Canning is a cultural tradition
- Processes are passed on for generations, but perhaps not the <u>why</u> behind the processes
- This was a tragic mistake that can happen to anyone not using proper canning procedures

### Response

- Rely on the strength of your partners
- Communication is vital
- Mechanics of response involve a lot of moving pieces

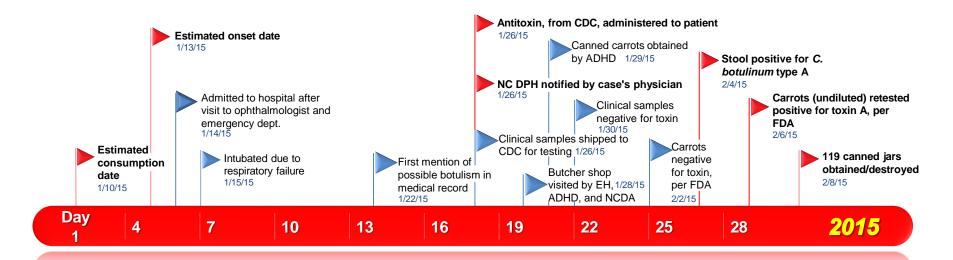
# **ACKNOWLEDGMENTS**

We gratefully acknowledge the family members of our botulism case who provided valuable information and assistance during a very difficult time in their personal lives.

- Appalachian District Health Department
  - Beth Lovette (Health Director)
  - Candy Graham (District CD Nurse)
  - Kipper Price (Ashe County CD Nurse)
  - Michael Roberson (District Food Specialist)
- NC Department of Agriculture
  - Jim Melvin
  - Joan Sims
  - Julie Schlegel

- NC Division of Public Health
  - Megan Davies
  - Larry Michael
  - Chris Hoke
  - Jennifer Stewart
  - Zack Moore
  - Carl Williams
  - Vanessa Greene
  - Kristin Sullivan
- FDA
  - Brett Weed
  - Southeastern Regional Lab Microbiology Department (SRL)
- CDC
  - Carolina Luquez
  - Rupa Narra
  - Agam Rao

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		Janı	ıary	201	5	
SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10 consumption
11	12	13 onset	14 admitted	15 intubates	16	17
18	19	20	21	22	23	24
25	26 DPH notified	27	28 Butcher shop	29	30 Clinical same	31

1	2	3	4	5	6
8	9	10	11	12	13
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22	23	24	25	26	<b>2</b> 7
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5	6	7	8	9	10

**March 2015** 

SAT

14

21

28

SUN MON TUE WED THU FRI

February 2015								
SUN	MON	TUE	WED	THU	FRI	SAT		
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8 119 canned ja destroyed	for taxin -	10	Botulinum typ 11	12	(+) toxin A 13	14		
imminent haz	<sup>ard)</sup> 6	17	18	19	20	21		
22	23	24	25	26	<b>2</b> 7	28		

April 2015							
SUN	MON	TUE	WED	THU	FRI	SAT	
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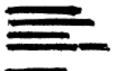
#### APPALACHIAN DISTRICT HEALTH DEPARTMENT

DISTRICT OFFICE: 126 Poplar Grove Connector, Boone, NC 28607 Telephone 828-264-4995 Fox 828-264-4997 www.appheafflucom.



Health for All: Promote, Prevent, Empower,

February 6, 2015



Thank you very much for your assistance and complete cooperation with the Appalachian District Health Department's investigation to determine and confirm that botulism from a jar of home-canned carrots had been the cause of illness for for availability for interview and your subsequent actions at our request are greatly appreciated, especially in light of serious health situation.

Because of the laboratory confirmation, our investigatory state/local team determined that all of the home-canned goods have the potential risk for botulism contamination. Therefore, according to North Carolina General Statute 130A-20, as local health director, I have declared all of the home-canned goods at excellence an imminent public health hazard, unsafe for human consumption. This required immediate abatement. As such, and with your assistance, we have embargoed and safely destroyed all of the home-canned goods that you delivered to Kipper Price, RN. I have copied the General Statutes for your information:

5 130A-2. Definitions. The following definitions shall apply throughout this Chapter unless otherwise specified:

(3) "Imminent hazard" means a situation that is likely to cause an immediate threat to human life, an immediate threat of serious physical injury, an immediate threat of serious adverse health effects, ar a serious risk of irreporable damage to the emironment if no immediate action is taken. "§ 130A-20. Abatement of an imminent hazard.

(a) If the Secretary or a local health director determines that an imminent hazard exists, the Secretary or a local health director may order the owner, lessee, operator, or other person in control of the property to abote the imminent hazard or may, after notice to or reasonable attempt to notify the owner, lessee, operator, or other person in control of the property enter upon any property and take any action necessary to obate the imminent hazard. If the Secretary or a local health director abates the imminent hazard, the Department or the local health department shall have a lien on the property of the owner, lessee, operator, or other person in control of the property where the imminent hazard existed for the cost of the abatement of the imminent hazard. The lien may be enforced in accordance with procedures provided in Chapter 44A of the General Statutes. The lien may be defeated by a showing that an imminent hazard did not exist at the time the Secretary or the local health director took the action. The owner, lessee, operator, or any other person against whose property the lien has been filed may defeat the lien by showing that that person was not culpable in the creation of the imminent hazard.

(b) The Secretary of Environment and Natural Resources and a local health director shall have the same rights enumerated in subsection (a) of this section to enforce the provisions of Articles 9 and 10 of this Chapter. (1893, c. 214, s. 22; Rev., ss. 3446, 4450; 1911, c. 62, ss. 12, 13; 1913, c. 181, s. 3; C.S., ss. 7071, 7072; 1957, c. 1357, s. 1; 1983, c. 891, s. 2; 1997-443, s. 11A.63; 2002-179, s. 6; 2006-255, s. 13.6; 2011-145, s. 13.3(uv).)\*

Again, please accept my thanks for your assistance. Best wishes for a complete and speedy recovery to

Sincerely.

いしめ レレビヒ Beth Lovette, MPH, RN, Public Health Director

cc. Nicole Lee, Nicole Lee, MPH, Epidemiologist, Communicable Disease Branch, N.C. Department of Health and Human Services

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